

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A disposable absorbent article comprising:
a topsheet;
a backsheet; and
an absorbent core disposed between the topsheet and the backsheet, said absorbent core comprising a durable, hydrophilic fluid pervious acquisition layer, said acquisition layer comprising:
(a) a acquisition layer substrate; and
(b) a hydrophilicity boosting composition coated on said substrate, said hydrophilicity boosting composition comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles have a particle size of from about 1 to about 750 nanometers, and wherein said acquisition layer substrate has been treated with a high energy surface treatment.
2. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said acquisition layer substrate is selected from the group consisting of porous polymeric films, nonwoven materials and combinations thereof.
3. (Currently Amended) [[A]]The disposable absorbent article according to Claim 2 wherein said acquisition layer substrate is a nonwoven material and wherein said nonwoven material comprises fibers selected from the group consisting of polyolefins, polyesters, cellulose and combinations thereof.
4. (Currently Amended) [[A]]The disposable absorbent article according to Claim 3 wherein said nonwoven material comprises fibers selected from the group consisting of polypropylene, polyethylene, polyethylene terephthalate, rayon and combinations thereof.
5. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said nanoparticles are inorganic nanoparticles.

6. (Currently Amended) [[A]]The disposable absorbent article according to Claim 5 wherein said nanoparticles are selected from the group consisting of titanium dioxide, layered clay minerals, alumina oxide, silicates, and combinations thereof.
7. (Currently Amended) [[A]]The disposable absorbent article according to Claim 6 wherein said nanoparticles are selected from the group consisting of titanium dioxide, Boehmite alumina, sodium magnesium lithium fluorosilicates and combinations thereof.
8. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said hydrophilicity boosting composition further comprises a surfactant.
9. (Currently Amended) [[A]]The disposable absorbent article according to Claim [[1]]8 wherein said surfactant is a nonionic surfactant.
10. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said absorbent core further comprises a storage layer disposed between the acquisition layer and the backsheet, and wherein said storage layer comprises material selected from the group consisting of absorbent gelling material, fluff, and mixtures thereof.
11. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said ~~disposable absorbent article further comprises a backsheet is~~ substantially liquid impervious backsheet and an absorbent core, wherein said absorbent core is between said topsheet and said backsheet.
12. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said disposable absorbent article is selected from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.
13. (Cancelled)
14. (Currently Amended) [[A]]The disposable absorbent article according to Claim 1 wherein said high-energy surface treatment is selected from the group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.

15. (Currently Amended) A process for making a disposable absorbent article comprising an absorbent core, said absorbent core comprising a durable, hydrophilic fluid pervious acquisition layer and said process comprising the step steps of:
selecting an acquisition layer substrate from the group consisting of porous polymeric films, nonwoven materials and combinations thereof;
treating said acquisition layer substrate with high energy surface treatment;
coating ~~an~~ said acquisition layer ~~substrate~~ substrate with a hydrophilicity boosting composition, said hydrophilicity boosting composition ~~comprises~~comprising a hydrophilicity boosting amount of nanoparticles, wherein said nanoparticles having a particle size of from about 1 to about 750 nanometers~~[[.]]~~
and wherein the step of treating said acquisition layer substrate with a high energy surface treatment occurs prior to or concurrently with the coating of the acquisition layer substrate.
16. (Currently Amended) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 ~~wherein prior to or concurrent with coating of said substrate, said substrate is treated with a high energy surface treatment said further comprising the step of selecting said~~ high-energy surface treatment ~~is selected~~ from the group consisting of corona discharge treatment, plasma treatment, UV radiation, ion beam treatment, electron beam treatment and combinations thereof.
17. (Currently Amended) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 wherein hydrophilicity boosting composition further comprises a carrier and a surfactant.
18. (Currently Amended) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 wherein said nanoparticles are inorganic nanoparticles.
19. (Cancelled)
20. (Currently Amended) ~~[[A]]~~The process for making a disposable absorbent article according to Claim 15 ~~wherein further comprising the step of selecting~~ said disposable absorbent article ~~is selected~~ from the group consisting of diapers, adult incontinence products, training pant, feminine hygiene pads, and panty liners.